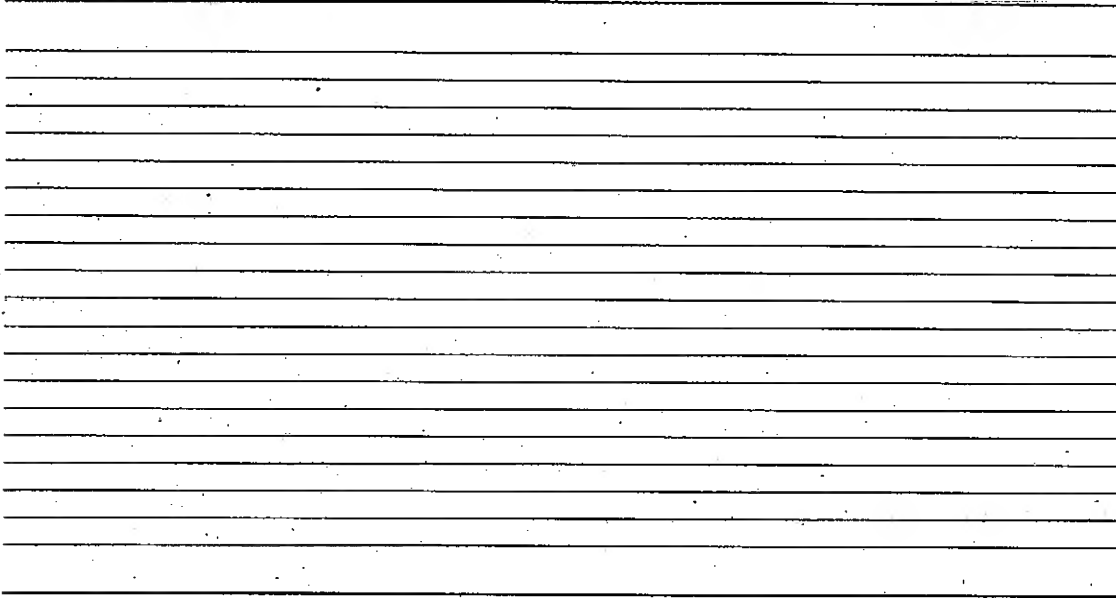


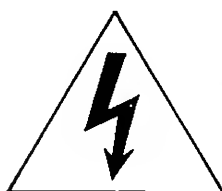
# Owner's Manual

## SS ONE/II MANUAL

Surround Sound Processor   DOLBY SURROUND  
with Stereo Surround Amplifier



# AudioSource®

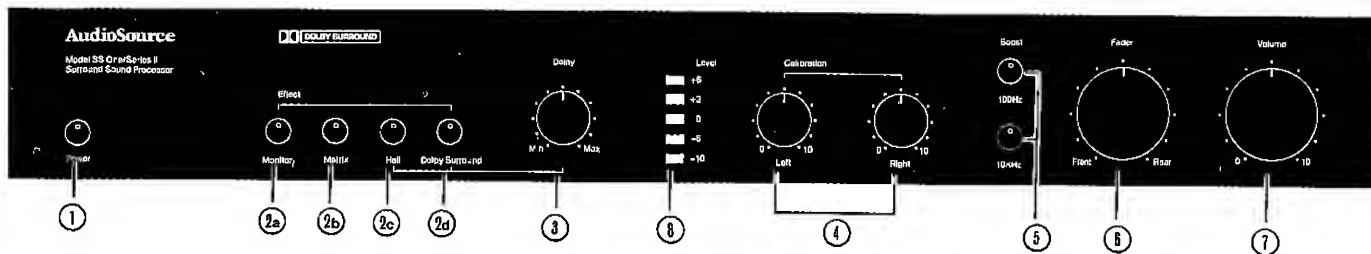


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE" AND "ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.**



## INTRODUCTION

Thank you for purchasing AudioSource's **SS One/II** Surround Sound Processor. It is designed to transform your most casual viewing experience into an incredible audio and video event. In conjunction with your present equipment, the **SS One/II** will enable you to enjoy the special Dolby encoded sound-track on video tapes, laser discs, and Dolby encoded stereo TV broadcasts.

The sound will expand from a flat screen into a 3-D

environment, in which you actually feel like you are a part of the action. You will be able to recreate the excitement and sensation of each scene, every note, and all the special audio/video effects as if you were in a movie theater.

By spending a few minutes to read the operating instructions carefully, you will have years of thrilling, realistic viewing and listening pleasure.

## INSTALLATION

**PRECAUTIONS** - Please follow these simple steps when operating the **SS ONE/II** or any electrical device.

**POWER PLUG** - Always grasp the plug when removing it from a socket. Never pull on the wires. Never remove or install the plug with wet hands, or electrical shock could occur. If you are not planning to use the unit for an extended length of time, it is wise to unplug it.

**REMOVAL OF CASE** - There are no user servicable parts inside the **SS ONE/II**, so you should never remove the case of the unit, as risk of shock exists. Refer all servicing to qualified service personnel.

**INSTALLATION PRECAUTIONS** - Avoid installing your **SS ONE/II**, or any electrical device, in areas exposed to direct sunlight, near heat radiating appliances, exposed to moisture or humidity, exposed to dust and dirt, in areas with poor ventilation, directly on top of power amplifiers and other heat producing components, or on surfaces which are unstable or prone to vibrations.

**CLEANING** - Wipe the faceplate and case of the **SS ONE/II** periodically with a soft cloth. Avoid using any thinners or volatile liquids to clean the **SS ONE/II**.

## CONNECTIONS

### Input-Output Terminals.

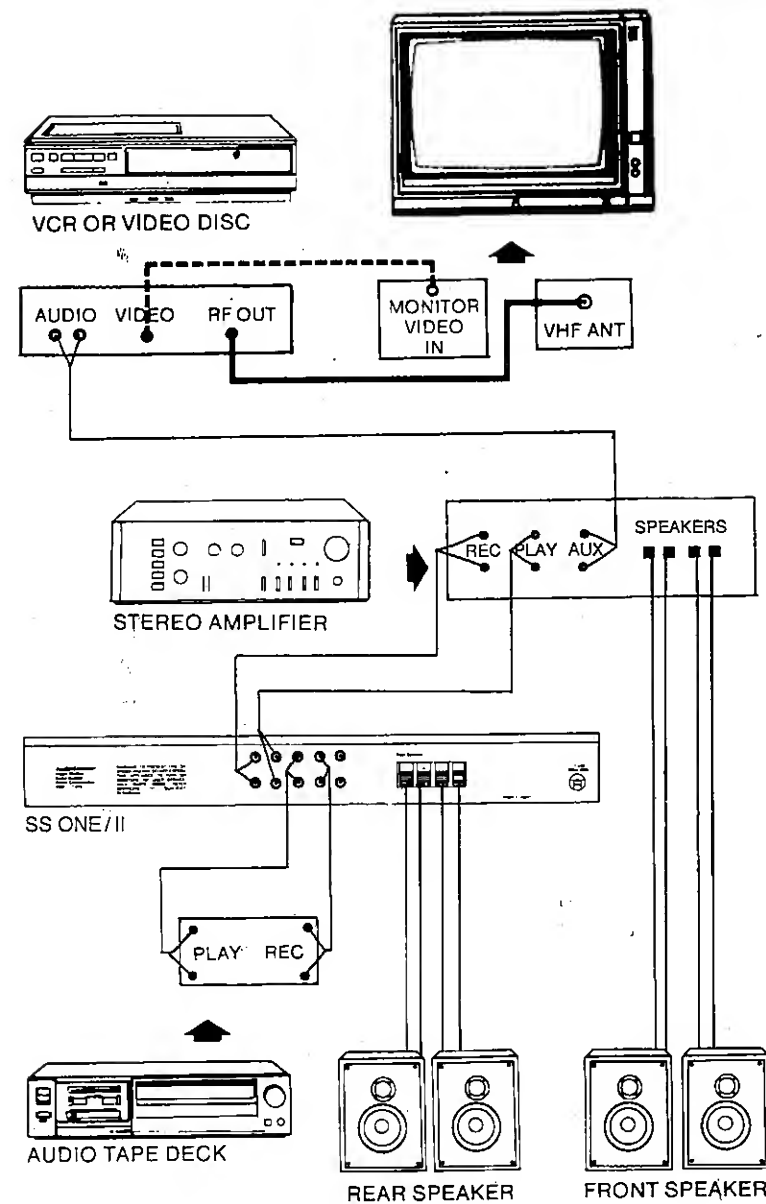
At the rear of your **SS One/II** you will find five sets of jacks which require cables using standard RCA plugs: Line IN, Line OUT, Tape Monitor, Tape Record, and Surround Out. You will also find speaker terminals for the rear speakers.

If you are connecting the **SS One/II** to your stereo receiver, you should link the unit through the Tape input/output loop (Tape Monitor/Tape Record) as

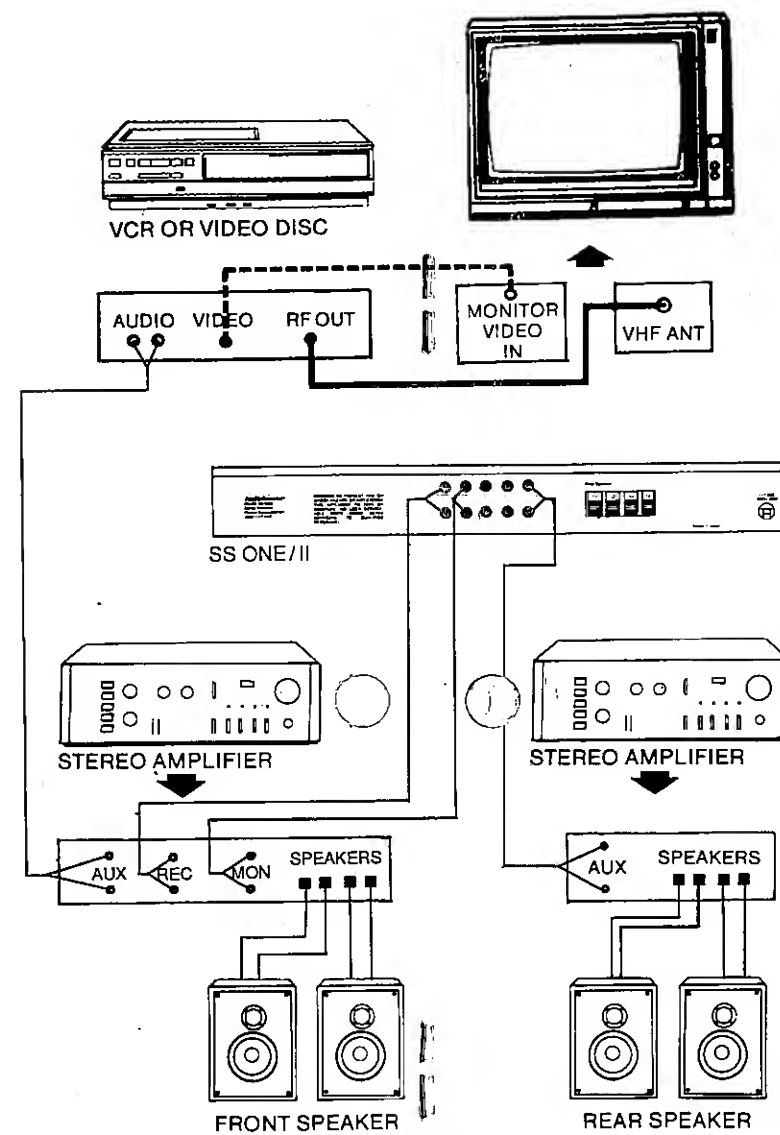
you would any signal processor such as an equalizer.

To allow you to supply more power to the rear speakers, we have provided Surround Out jacks at the back of the **SS One/II**. In this application, connect the Surround Out to the input jacks of the second amplifier. Connect the speaker terminals on the second amplifier to the rear speakers.

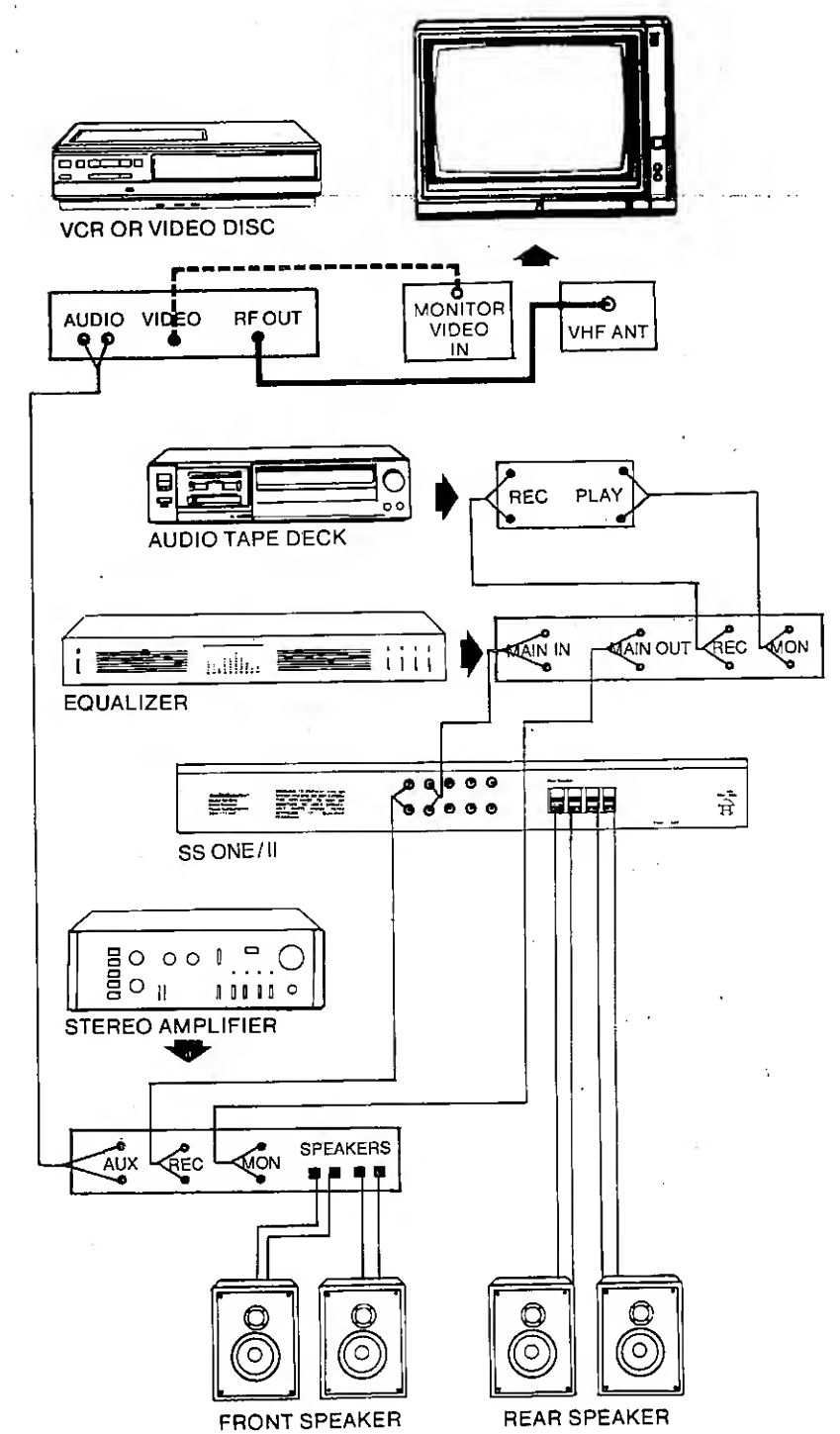
■ TV (mono sound), Stereo System and Stereo VCR



■ TV (mono sound), Stereo VCR and using two external Stereo Amplifiers for the front and rear sound field



■ TV (mono sound), Stereo VCR, Stereo System with Tape Deck and Equalizer



## ELECTRONIC CONTROLS

### ① Power

Press to turn unit on. Press again to turn unit off.

### ② Space Effects

#### a. Monitor

This button selects the source signal or output of a unit connected to the Tape Monitor input jacks of the SS Two.

#### b. Matrix

Press to synthesize a stereo sound from a mono source such as mono sound television broadcast, old movies or mono VCR recordings.

#### c. Hall

Press when listening to non-Dolby encoded material. The Hall circuit will create the "spaciousness" or reverberation experienced in a concert hall. The "size" can be altered by increasing or decreasing the delay to the rear speakers with the Delay control.

#### d. Dolby Surround

Touch to attain the Dolby Surround information that is encoded in a videotape, a laser disc, or Dolby encoded stereo television program. The Delay control may also be used in this mode.

### ③ Delay

This control allows you to determine the time delay between the front and rear (Surround) speakers. Use it in conjunction with the Hall and Dolby Surround modes. To increase the Delay, rotate the Delay knob clockwise. To decrease the Delay, rotate the Delay knob counter clockwise. By "slowing down" or increasing the Delay you deepen the effect of three-dimensional sound.

### ④ Calibration

These controls are used to "Null" out or minimize the leakage of the front channel information to the rear channels. One would normally set the right and left calibration knobs at midpoint. To maximize the nulling effect, choose a dialogue and carefully adjust either knob to the left or right until a minimum dialogue is heard at the rear speakers.

### ⑤ Boost (100Hz, 10KHz)

You may want to add presence to the lows or highs during some programs. Touching the 100Hz button will emphasize tones of the bass octave, giving more depth to older, thin sounding productions. And touching the 10KHz button will emphasize the crispness desired in other programs.

### ⑥ Fader

This control sets the relative balance of volume coming from the front and rear speakers. Rotating the Fader knob counter clockwise raises the volume of the front speakers while lowering the volume of the rear speakers. Rotating the Fader knob clockwise lowers the volume of the front speakers while raising the volume of the rear speakers.

### ⑦ Volume

This control raises the level of volume coming from both front and rear speakers simultaneously. (The balance of volume between front and rear is controlled by the Fader.) Rotate the Volume knob clockwise to raise the volume, counter clockwise to lower the volume.

### ⑧ Level Indicator

These lights show the level of rear channel information passing through the SS One. With the use of the calibration knobs keeping this indicator in the "0" or midpoint level during maximum rear channel information is ideal.

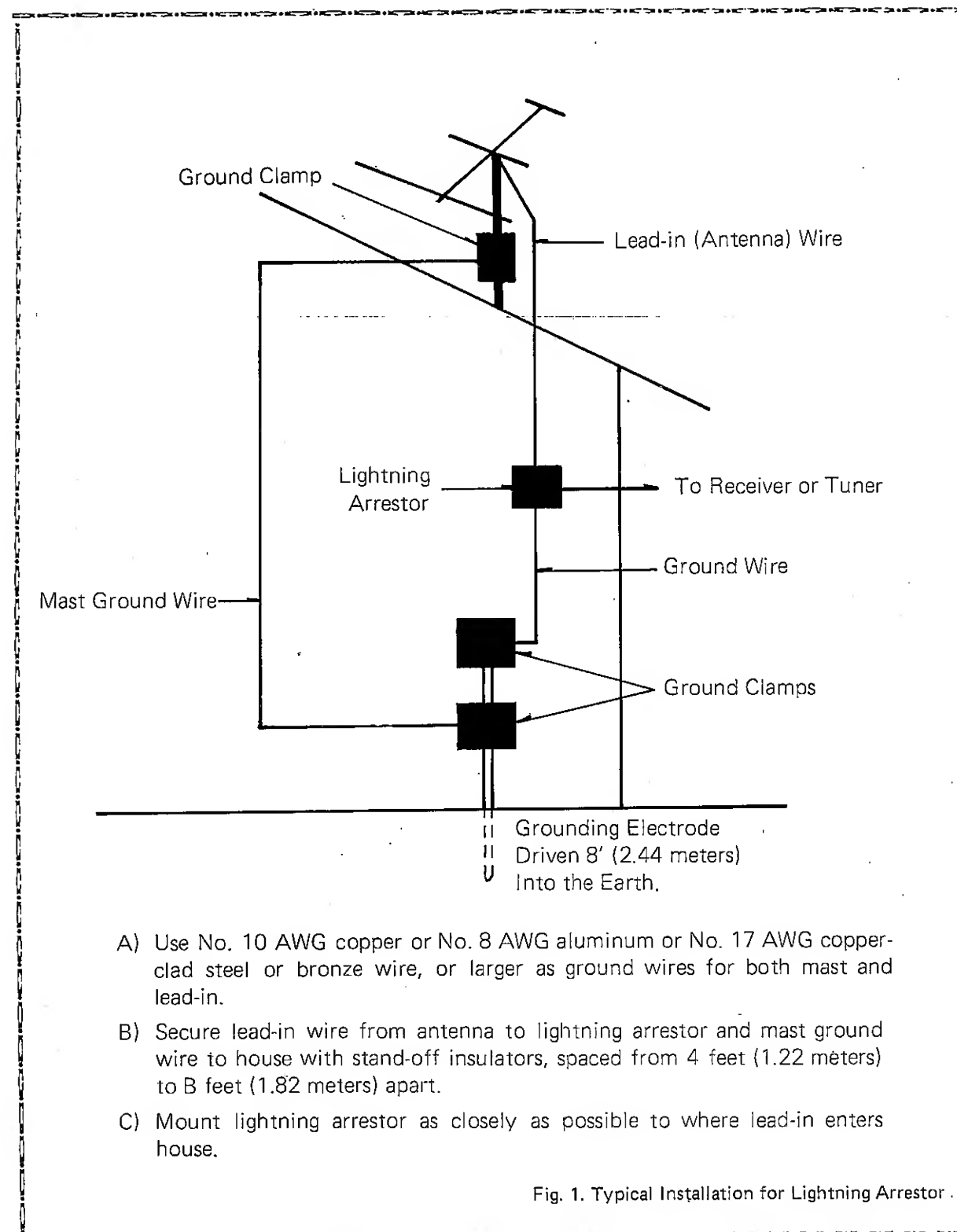
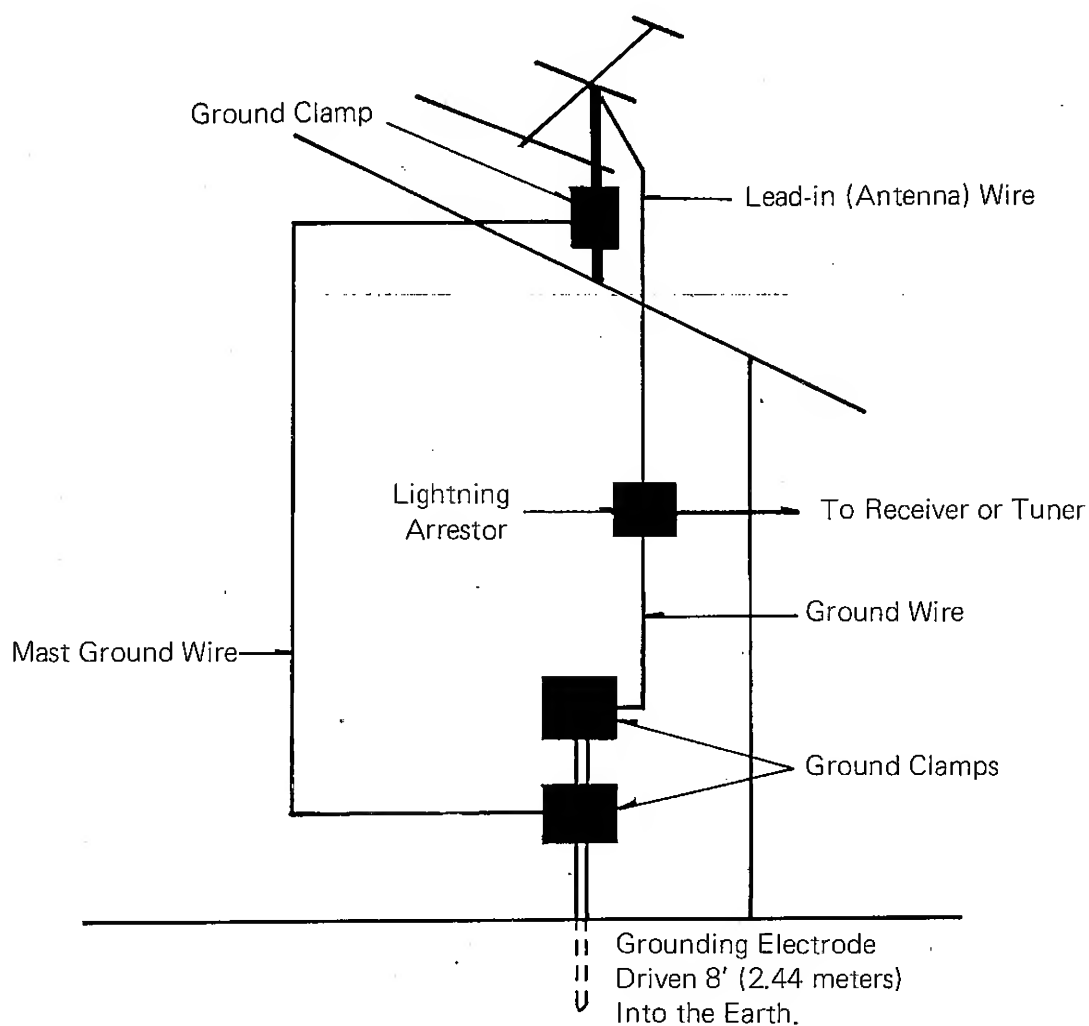


Fig. 1. Typical Installation for Lightning Arrester.



- A) Use No. 10 AWG copper or No. 8 AWG aluminum or No. 17 AWG copper-clad steel or bronze wire, or larger as ground wires for both mast and lead-in.
- B) Secure lead-in wire from antenna to lightning arrester and mast ground wire to house with stand-off insulators, spaced from 4 feet (1.22 meters) to 8 feet (2.44 meters) apart.
- C) Mount lightning arrester as closely as possible to where lead-in enters house.

Fig. 1. Typical Installation for Lightning Arrester

# **SAFETY INSTRUCTIONS**

## **READ BEFORE OPERATING EQUIPMENT**

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read instructions-Read and follow all the safety and operating instructions before operating the equipment. Save the Owner's Manual for future reference.

2. The equipment should not be used near water-for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

3. The equipment should not be located near heat sources such as radiators, heat registers, stoves, or other appliances that produce heat.

Position the equipment so that its proper ventilation is not interfered with. For example, the equipment should not be placed on a bed, sofa, rug, or similar surface that may block the ventilation openings.

Except as described in the Owner's Manual, don't place the equipment in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

4. The equipment should be used only with a cart, stand, or rack specifically designed to hold stereo equipment. If the equipment is to be mounted in a wall or ceiling, care should be taken to assure a stable and solid installation; professional assistance should be sought in difficult installations.

5. The equipment should be connected to a power source of the same type described in the Owner's Manual and also on the equipment. The power cord should be routed so it won't be walked on or pinched by objects placed upon or against it. Pay particular attention to power cords where they connect to plugs,

convenience outlets and the equipment itself.

6. To avoid a possible shock hazard situation:

A) Don't remove the center (ground) conductor, if any, from the power plug.

B) Don't file down a conductor of a power plug so it will fit into an extension cord.

7. If an outdoor antenna is used in your system, it should be located away from power lines. The outdoor antenna should be grounded to provide protection against lightning and built up static charges. Figure 1 illustrates a typical installation. A lightning arrestor can be obtained from stereo stores and electronic shops. Instructions will be included with the lightning arrestor.

8. Care should be taken so that objects do not fall onto and liquids are not spilled into the equipment. The equipment should be cleaned only as described in the CLEANING section of the Owner's Manual.

9. The power cord of the equipment should be unplugged from the outlet if the unit won't be used for a long period of time.

10. You should not attempt to service the equipment beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

The equipment should be serviced by qualified service personnel whenever any of the following occurs.

A) The power supply cord or the plug has been damaged.

B) Objects have fallen onto, or liquid has been spilled into the equipment.

C) The equipment has been exposed to rain.

D) The equipment does not appear to operate normally or exhibits a marked change in performance.

E) The equipment has been dropped or the case damaged.

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## Specifications

### MAIN UNIT

Amplifier Power Output	30W + 30W
Frequency Response:	Matrix: 20Hz - 20kHz Hall: 30Hz - 7kHz Dolby Surround: 30Hz - 7kHz
Signal/Noise Ratio	Matrix: 85dB Hall: 72dB Dolby Surround: 72dB
Delay Time (variable):	10MS - 30MS
Input Sensitivity (line):	250mv
Input Impedance:	47k Ohms
Output Level (Sur out, dolby mode):	500mv at 47k Ohms
Input Handling Modes:	Dolby Surround Sound, Hall Surround, Matrix Surround, Monitor
Outputs:	Line Out (unprocessed) Surround Out Tape Record Out
Output Signal Polarity:	Line Out: Non-inverting Surround Out: Non-inverting Tape Record Out: Non-inverting
Reference Display:	5 Level LED Display
Power Requirement	120 V AC, 60Hz, 90 Watts
Dimensions:	16 1/2" W x 2 1/16" H x 9 1/8" D
Weight:	6 lbs. 13 oz.

### REMOTE CONTROL TRANSMITTER

Type	Infrared Remote Control
Batteries	"AA" 1.5V x 2
Dimensions	2.5" W x 6.7" H x 0.7" D

*Designs and specifications subject to change without notice.*

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